

Method and Apparatus for Segmentation of Compound Documents Having Low Resolution Halftones

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ABSTRACT OF THE DISCLOSURE

A method for segmenting a compound document for enhancement during replication of the compound document is provided. The method initiates with filtering data representing a portion of the compound document through a filter associated with a first resolution. Then, the data representing the portion of the compound document is filtered through a filter associated with a second resolution. Next, edges are detected on both, an output of the filter associated with the first resolution and an output of the filter associated with the second resolution. Then, data representing detected edges from both outputs are combined. Next, it is determined whether a pixel corresponding to the data representing the detected edges is over a halftone region. Methods for labeling digital image data and labeling and enhancing documents defined through digital data, as well as associated computer readable medium embodiments are provided. An image replication device and an integrated circuit configured to segment and enhance image data associated with a compound document are also provided.